

Reports Shawn Firth

17 October 1995

Report Features



Task Analysis showed time spent on report generation > 40%

Typically not integrated with ground system

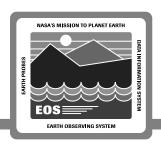
• Time spent moving files, manual input, etc.

Our goal was to produce

- Integrated reporting capability
- Flexible reporting capability

Report capability, coupled with standing order capability, should show significant savings in report generation man-hours

Report Features



Report types

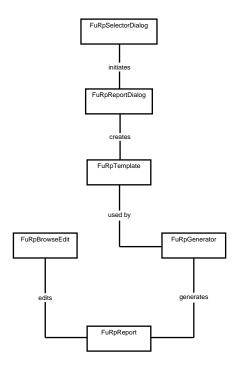
- Routine
 - Periodic
 - On Demand
- Custom
- Saved as PDF file (industry standard)

Report Componenets

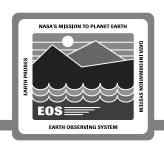
- Report Selector
- Report Dialog
- Report Template
- Report Generator
- Report Browser/Editor

Reports





Periodic Reports

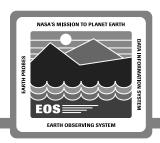


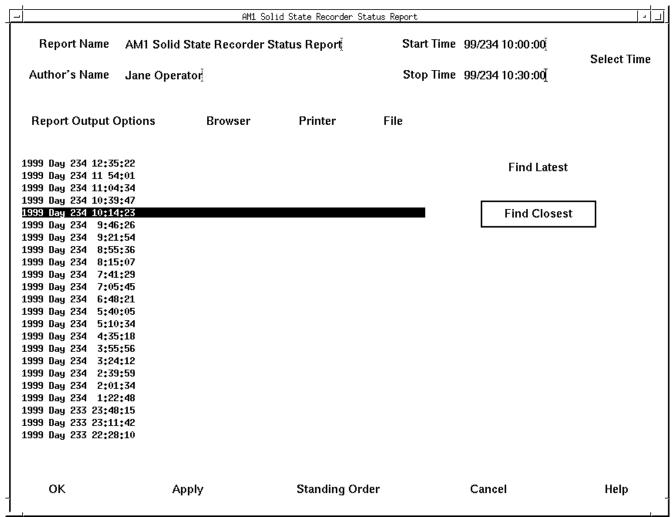
Generated Automatically by subsystems on a periodic basis

- Analysis
 - Solid State Recorder Status, etc.
- Command Management
 - Integrated Report, etc.
- Data Management
 - Command Report
 - TDRSS Service Session, etc.
- Planning & Scheduling
 - HGA Gimbal Angles, etc.
- User Interface
 - Command Procedures Report, etc.

Periodic reports can be submitted as standing orders

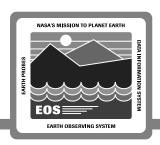
Periodic Reports Cont.





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On Demand Reports

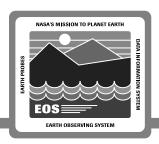


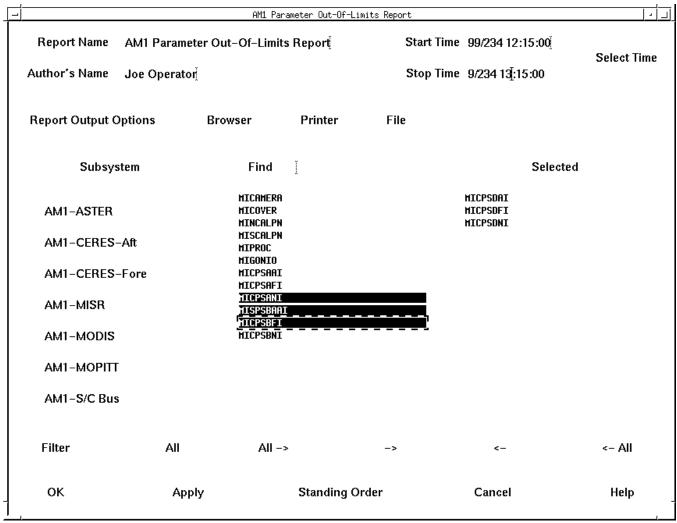
Generated on demand with input from the user

- Analysis
 - Parameter Out-Of-Limits, etc.
- Command Management
 - Dump Miscompare Report, etc.
- Planning & Scheduling
 - Graphical Timeline Plot, etc.

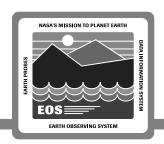
On demand reports can be submitted as standing orders

On Demand Reports Cont.





Custom Reports



FOT/IOT uses for custom reports:

- Weekly reports
- Anomaly reports, etc.

Can save the report definitions for reuse

Custom reports can be submitted as standing orders

Contents defined by user, contain any combination of the following

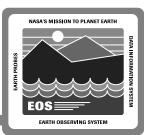
- Analysis Products (graphs, tables)
- Routine Reports (periodic, on demand)
- Screen Snaps of dynamic pages
- Free form, user specified text

Custom Reports Cont.



Slide available in hard copy only.

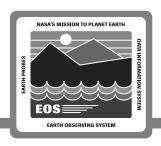
Custom Reports Cont.



		Custom Report	:		
Report Name July	Battery Anomaly	Load	Start Time	99/207 12:14:00	Select Time
Author's Name Jane	e Operator <u>į</u>		Stop Time	99/207 15:34:00 ្	
Report Output Option	s Browser	Printer	File		
Analysis Req	uests		Routin	e Reports	
Battery Depth-Of-Discha Battery Depth-Of-Discha Battery Temperatures			raneter Out-Of-Lin raneter Out-Of-Lin		
<u>Battery Temperatures</u> Battery Voltage Analysi Battery Voltage Analysi		Add			Add
		Delete			Delete
Text 1		Insert Analysis	Product	Top Margin	0.5į
Report 1	View	Insert Routine Report Bottom Margin		Bottom Margin	0.5į
Graph 1	A	Insert Snap Left Margin			1.25 ૂ
Graph 2	•	Insert Text Right Margin		1.25	
Table 1	*				-
	Delete	Insert ASC	II File	Landscape	Protrait
ок	Apply	Standing O	rder	Cancel	Help

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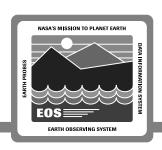
Report Selector



Allows user to request specific routine reports

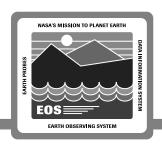
- Can filter on report type
 - On Demand
 - Periodic
- Can filter on subsystem
 - Analysis
 - Command Management
 - Data Management
 - Planning & Scheduling
 - Resource Management
 - User Interface
- · Can filter on vehicle

Report Selector Cont.



_		Repor	t Selector			1
Bot	h On I	Demand	Periodic	:		
	Analys	is			AM1	
RDD Spa		Lock Correl		On Demand Periodic		
		rder Status	·	Periodic		
_	en Perfori dered Dow			On Demand On Demand		
		clock Corr	elation	on vemano Periodic		
0	K	Apply	C	ancel	Help	

Report Template

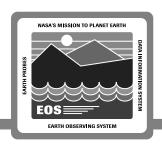


Built by report dialogs Comes in three types

- Periodic
- On Demand
- Custom

Contains all information needed to generate a report Can be contained in a standing order

Report Generator



Builds report from report template
Brings all pieces together and converts them to PDF

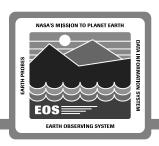
- Makes analysis requests
 - Inserts returned products
- Inserts files
 - Periodic reports
 - ASCII Files
 - Snaps
- Generates included reports (Custom only)

Outputs report based on user specification

- Browser
- Printer
- File

Can be called by the standing order manager with a report template

Report Browser/Editor



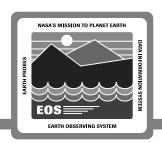
Report Browser/Editor Filter

- Allows user to choose which report to browse/edit
- Filters out classes of reports
 - Custom, On Demand, Routine

Report Browser/Editor

- COTS solution PDF Browser/Editor (Adobe Acrobat possible candidate)
- Allows a user to browse and edit previously generated reports
 - Browse reports
 - Edit text
 - Annotate graphs, tables, snaps

Report Browser/Editor Filter



4	Report Br	owser	
	All		
AM1 January Battery AM1 July Battery AM		Custon Custon	
AM1 Parameter Out-	Of-Limits 99/145	On Demand On Demand Periodic	
			Edit Report
			Report Selector
Report Name	AM1 July Battery Anomaly	Start Ti	me 99/207 12:14:00į
Author's Name	Jane Operatorį̇́	Stop Ti	me 99/207 15:34:00
ок	Apply	Cancel	Help

Report Browser/Editor

